# cepton\_sdk Documentation

**Cepton Technologies** 

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# **ONE**

# **OVERVIEW**

If a method is undocumented, consult the C/C++ SDK documentation, since many methods in this library are just wrapper functions.

# 1.1 Timestamps

Unless otherwise marked, all timestamps are seconds since the Unix epoch (UTC). Note that this differs from the C/C++ interface which uses microseconds.

# **TWO**

# **ERRORS**

4 Chapter 2. Errors

## **THREE**

## **SETUP**

# 3.1 Types

```
class cepton_sdk.ControlFlag
   An enumeration.

DISABLE_DISTANCE_CLIP = 8

DISABLE_IMAGE_CLIP = 4

DISABLE_NETWORK = 2

ENABLE_MULTIPLE_RETURNS = 16

ENABLE_STRAY_FILTER = 32

HOST_TIMESTAMPS = 64
```

### 3.2 Methods

6 Chapter 3. Setup

# **FOUR**

## **GENERAL**

```
API for code that is agnostic to live/replay mode.

cepton_sdk.get_time()
    Returns capture replay time or live time.

cepton_sdk.get_timestamp()
    Returns unix timestamp

cepton_sdk.is_end()
    Returns true if next call to wait will throw CEPTON_ERROR_EOF

cepton_sdk.is_live()
    Returns true if capture replay is not open.

cepton_sdk.is_realtime()
    Returns true if live or capture replay is running.

cepton_sdk.wait(duration=-1)
    Resumes capture replay or sleeps for duration.
```

If *duration* is 0, then waits forever.

8 Chapter 4. General

## **FIVE**

## **SENSORS**

# 5.1 Types

```
class cepton_sdk.SensorModel
    An enumeration.
    FUSION_790 = 8
    HR80M = 2
    HR80T = 1
    HR80T_R2 = 6
    HR80W = 3
    SORA_200 = 4
    VISTA_860 = 5
    VISTA_860_GEN2 = 7
class cepton_sdk.SensorInformation
    handle
    serial_number
    model_name
    model
           Type cepton_sdk.SensorModel
    firmware_version
    last_reported_temperature
    last_reported_humidity
    last_reported_age
    last_reported_hv
    last_reported_optic_temperature
    gps_ts_year
    gps_ts_mont
    gps_ts_day
```

```
gps_ts_hour
    gps_ts_min
    gps_ts_sec
    return_count
    is_mocked
    is_pps_connected
    is_nmea_connected
    is_calibrated
    is_over_heated
class cepton_sdk.Sensor(sensor_info)
    information
            Type cepton_sdk.SensorInformation
    classmethod create(serial_number)
    classmethod create_by_handle(sensor_handle)
    classmethod create_by_index(sensor_index)
    handle
    serial_number
    update()
         Update sensor information.
         Should be called often, to pull latest sensor information.
```

#### 5.2 Methods

```
cepton_sdk.has_sensor(sensor_serial_number)
cepton_sdk.get_sensors(cls=<class 'cepton_sdk.api.Sensor'>)
    Returns attached sensors.
```

**Returns** Dictionary of sensors, indexed by serial number.

SIX

#### **POINTS**

# 6.1 Types

```
class cepton_sdk.Points(n=0)
     3D points array.
     timestamps_usec
     timestamps
     image_positions
     distances
     positions
     intensities
     return_strongest
     return_farthest
     valid
     saturated
cepton_sdk.combine_points(points_list)
     Combine list of points (ImagePoints, Points, etc).
     List must be nonempty. :returns: combined_points
All point array classes support numpy indexing and assignment as if they were 1-d arrays:
```

```
n_points = len(points_1)
points_2[10:20] = points_1[:10]
```

Multiple point arrays can also be combined:

```
points = cepton_sdk.combine_points([points_1, points_2])
```

#### 6.2 Methods

See Listen.

The following methods return points directly from the C SDK callback.

```
cepton_sdk.listen_frames(callback)
     Register frames callback.
     Throws error if callback_id is currently registered.
          Returns callback_id
cepton_sdk.unlisten_frames(callback_id)
     Unregisters frames callback.
     Throws error if callback_id is not currently registered.
There are also listener classes that seamlessly handle accumulation and waiting.
class cepton_sdk.FramesListener
class cepton_sdk.SensorFramesListener(serial_number)
6.3 Export
cepton_sdk.export.save_points_las(points, path)
     Save points to LAS file.
cepton_sdk.export.load_points_las (load_path, cls=<class 'cepton_sdk.point.Points'>)
     Load points from LAS file.
          Returns Points, extra_data
cepton_sdk.export.save_points_ply(points, path)
     Save points to PLY file.
cepton_sdk.export.save_points_pcd(points, path)
     Save points to PCD file.
```

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#### SEVEN

## **CAPTURE REPLAY**

To open/close capture files, use <code>cepton\_sdk.initialize</code> and <code>cepton\_sdk.deinitialize</code> methods respectively. The high level API methods will automatically resume the capture replay as necessary.

```
cepton_sdk.open_replay(capture_path, capture_seek=0)
cepton_sdk.close_replay()
cepton_sdk.capture_replay.get_filename()
cepton_sdk.capture_replay.get_length()
cepton_sdk.capture_replay.get_position()
cepton_sdk.capture_replay.get_start_time()
cepton_sdk.capture_replay.get_time()
cepton_sdk.capture_replay.is_end()
cepton_sdk.capture_replay.is_open()
cepton_sdk.capture_replay.seek(t)
cepton_sdk.capture_replay.seek_relative(t)
```

# **EIGHT**

## **EXPORT**

Methods to import/export points to common file formats.

```
class cepton_sdk.export.PointsFileType
    An enumeration.

CSV = 1

LAS = 2

PCD = 3

PLY = 4

cepton_sdk.export.save_points(points, path, file_type=<PointsFileType.LAS: 2>)
    Save points to file.

Sets file extension based on type.

cepton_sdk.export.load_points(path, file_type=None)
    Load points from file.

File type is inferred from extension.
```

Returns Points, extra\_data

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#### NINE

#### **SAMPLES**

#### 9.1 Listen

Listing 1: samples/listen.py

```
#!/usr/bin/env python3
2
   import numpy
   import cepton_sdk
   from common import *
   def on_frame(serial_number, points):
       print("Received {} points from sensor {}".format(
10
           len(points), serial_number))
11
12
13
   if __name__ == "__main__":
14
       # Initialize
15
       cepton_sdk.initialize(capture_path=get_sample_capture_path())
16
       sensors_dict = cepton_sdk.get_sensors()
17
       sensor = next(iter(sensors_dict.values()))
18
19
       callback_id = cepton_sdk.listen_frames(on_frame)
20
       cepton_sdk.wait(0.1)
21
       cepton_sdk.unlisten_frames(callback_id)
22
23
24
       # Get next frames for all sensors. Wait until data is available.
25
       listener = cepton_sdk.FramesListener()
       points_dict = listener.get_points()
26
       del listener
27
28
       # Get next frames for single sensor. Wait until data is available.
29
       listener = cepton_sdk.SensorFramesListener(sensor.serial_number)
30
       points_list = listener.get_points()
31
       del listener
32
33
       # Get large chunk of data
34
       listener = cepton_sdk.FramesListener()
35
       cepton_sdk.wait(10)
36
       points_dict = listener.get_points()
       del listener
```

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```
points = cepton_sdk.combine_points(points_dict[sensor.serial_number])

print("Received {} seconds of data from sensor {}".format(
    numpy.ptp(points.timestamps), sensor.serial_number))
```

# 9.2 Multiple Sensors

Listing 2: samples/multiple\_sensors.py

```
#!/usr/bin/env python3
2
   import pprint
   import cepton_sdk
   import cepton_sdk.plot
   from common import *
   if __name__ == "__main__":
9
       # Variables
10
11
       capture_path = get_sample_capture_path()
12
       # Initialize
13
       cepton_sdk.initialize(capture_path=capture_path)
14
15
       # Get sensors
16
       sensors_dict = cepton_sdk.get_sensors()
17
       # Get points
       listener = cepton_sdk.FramesListener()
20
       points_dict = listener.get_points()
21
       del listener
22
       points_list = next(iter(points_dict.values()))
23
       points = points_list[0]
        # Plot
26
       cepton_sdk.plot.plot_points(points)
```

# 9.3 Single Live Sensor

Listing 3: samples/single\_live\_sensor.py

```
#!/usr/bin/env python3

import pprint

import cepton_sdk
import cepton_sdk.plot
from common import *

if __name__ == "__main__":
    # Variables
    frame_length = 0.1
```

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```
12
       # Initialize
13
       cepton_sdk.initialize()
14
       # Get sensor
       sensor = cepton_sdk.Sensor.create_by_index(0)
17
       pprint.pprint(sensor.information.to_dict())
18
19
       # Get points
20
       listener = cepton_sdk.SensorFramesListener(sensor.serial_number)
21
       points_list = listener.get_points()
22
       del listener
       points = points_list[0]
25
       # Plot
26
       cepton_sdk.plot.plot_points(points)
```

# 9.4 Single Sensor

Listing 4: samples/single\_sensor.py

```
#!/usr/bin/env python3
2
   import pprint
   import numpy
   import cepton_sdk
   import cepton_sdk.plot
   from common import *
10
   if __name__ == "__main__":
       # Variables
12
       capture_path = get_sample_capture_path()
13
14
       # Initialize
15
       cepton_sdk.initialize(capture_path=capture_path)
16
17
       # Get sensor
       sensor = cepton_sdk.Sensor.create_by_index(0)
       pprint.pprint(sensor.information.to_dict())
20
21
       # Get points
22
       listener = cepton_sdk.SensorFramesListener(sensor.serial_number)
23
       points_list = listener.get_points()
24
       del listener
25
       points = points_list[0]
26
27
28
       cepton_sdk.plot.plot_points(points)
```

9.4. Single Sensor

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